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In the claims

- 1. (currently amended) Isolated DNA coding for the CstMI restriction enzyme, wherein the isolated DNA is obtainable from Corynebacterium striatum.
- 2. (original) A recombinant DNA vector comprising a vector into which a DNA segment coding for the CstMI endonuclease has been inserted.
- 3. (previously presented) Isolated DNA coding for the CstMI endonuclease/methyltransferase, wherein the isolated DNA is obtainable from ATCC Accession No. PTA-5291.
- 4. (original) A vector which comprises the isolated DNA of claim 3.
- 5. (original) A host cell transformed by the vector of claim 2 or 4.
- 6. (currently amended) A method of producing an CstMI restriction endonuclease and CstMI methylase comprising culturing the a_host cell of claim 5 transformed by a vector comprising isolated DNA coding for CstMI endonuclease and methyltransferase under conditions suitable for expression of said endonuclease.

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7. (withdrawn) A substantially pure type II restriction endonuclease obtainable from *Corynebacterium striatum* recognizing the following base sequence in double-stranded deoxyribonucleic acid molecules:

5'-AAGGAGN20Ø-3' 3'-TTCCTCN18≠-5'

and having a cleavage position defined by the arrows.

- 8. (withdrawn) A method for obtaining Type II restriction endonuclease of claim 7, comprising cultivating a sample of *Corynebacterium* striatum under conditions favoring the production of said endonuclease and separating said endonuclease therefrom.
- 9. (withdrawn) The Type II restriction endonuclease of claim 7, wherein the restriction endonuclease is purified from GenBank Accession #AAG03371.